

Base from U.S. Geological Survey, Kenai C-3, C-4, D-3, D-4, 1:63,360 (1951)

EXPLANATION

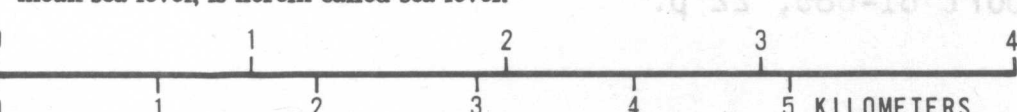
- 10116 Observation well; larger number is station number; digit number includes number of wells represented by symbol.
- 10116 Observation well equipped with a recorder
- 10116 Discontinued measurement well
- 10116 Streamflow measurement site without gage
- 10116 Stream chemical-measurement site
- 10116 Peak-flow measurement station
- 10116 Discontinued gaging station
- 10116 Lake stage-measurement site without gage
- 10116 Non-recording precipitation and air temperature measurement site
- 10116 Basin boundary (surface water)
- 10116 Basin boundary (estimated in low-relief wetlands and on ground-water divides)

For additional information write to:  
District Chief  
U.S. Geological Survey  
Water Resources Division  
1515 E. 13th Avenue  
Anchorage, Alaska 99501

CONVERSION TABLE

Multiply by	to obtain
inch (in.)	25.40 millimeter (mm)
foot (ft)	0.3048 meter (m)
mile (mi)	1.609 kilometer (km)
acre	0.4047 hectare

Note: National Geodetic Vertical Datum of 1929 (NGVD of 1929), the reference surface to which relief features and altitude data are related, and formerly called mean sea level, is herein called sea level.



HYDROLOGIC-DATA STATIONS AND LAKE LEVELS, KENAI-NIKISKI AREA, ALASKA, 1983

by Bonnie J. Bailey

STREAMFLOW					
Station no.	Station name	Location	Period of record	Remarks	
15-2665	Beaver Creek near Kenai	Lat 60°33'50", Long 151°07'03", in SE1/4 sec. 36, T. 6 N., R. 11 W., on right bank 75 ft down stream from culvert on Kenai-Soldotna Road, and 4.5 mi east of Kenai at mile 6.1.	Peak-flow measurement station 1980 to present; continuous record October 1967 to September 1979; nine discharge measurements 1951-1952.	Water-quality information available.	
15-2668	Salamatof Creek near Kenai	Lat 60°37'20", Long 151°10'00", in SE1/4 sec. 11, T. 6 N., R. 12 W., at North Kenai Road, 0.5 mi upstream from mouth at Cook Inlet, and 5.4 mi northwest of Kenai.	One discharge measurement, 1968; four recorded observations of no flow 1968-1970.		
15-2669	Bernice Creek near Kenai	Lat 60°41'30", Long 151°22'50", in SE1/4 sec. 16, T. 7 N., R. 12 W., at North Kenai Road, 500 ft below Bernice Lake, and 10.8 mi northwest of Kenai.	Two discharge measurements, 1968; three recorded observations of no flow 1968-1970.		
15-2670	Bishop Creek near Kenai	Lat 60°46'35", Long 151°05'45", in NE1/4 sec. 19, T. 8 N., R. 10 W., on right bank 10 ft upstream from culvert entrance on North Kenai Road at mile 35.1 and 1.4 mi upstream from mouth at Cook Inlet.	Continuous record April 1977 to September 1979; nine discharge measurements during 1967-1970.	Water-quality information available.	
LAKE STAGE					
Lake	Tributary to	Location	Surface area (acres)	Period of Record	
Kidney	Closed lake	In SW1/4 sec. 29, T. 7 N., R. 11 W., at east shore	71	1970-1976, generally one measurement per year, 1977 to present, two measurements per year.	
Cabin	Closed lake	In NE1/4 sec. 26, T. 7 N., R. 12 W., at east shore	53	"	
Dog Bone	Closed lake	In SE1/4 sec. 13, T. 7 N., R. 12 W., at west shore	27	"	
Island	Closed lake	In SE1/4 sec. 11, T. 7 N., R. 12 W., at west shore	272	"	
Unnamed Lake	Closed lake	In SW1/4 sec. 23, T. 7 N., R. 12 W., at south shore	8.6	"	
Wik	Closed lake	In NE1/4 sec. 8, T. 7 N., R. 11 W., at north shore	173	"	
Georgine (formerly Laura)	Closed lake	In NW1/4 sec. 4, T. 7 N., R. 11 W., at northwest shore	41	"	
Douglas	Closed lake	In NW1/4 sec. 28, T. 7 N., R. 11 W., at north shore	90	"	
Daniels	Bishop Creek	In SW1/4 sec. 34, T. 8 N., R. 11 W., at northwest shore	602	"	
Shadura	Closed lake in Beaver Creek basin	In NE1/4 sec. 15, T. 7 N., R. 10 W., at south shore of island near north shore of lake	258	"	
Konovaf	Closed lake in Beaver Creek basin	In SW1/4 sec. 26, T. 7 N., R. 11 W., at south shore of island near north shore of lake	256	"	
Bernice	Bernice Creek	In SW1/4 sec. 15, T. 7 N., R. 12 W., at south shore	146	1970-1976, generally one measurement per year, 1977-1979, continuous stage record, 1979 to present, two measurements per year.	
CLIMATOLOGICAL (U.S. DEPARTMENT OF COMMERCE)					
Index no.	Station name	Location	Period of Record		
4596	Kenai FSA AP	Lat 60°34', Long 151°12'; in SW1/4 sec. 32, T. 6 N., R. 11 W., at Kenai Airport.	1870-1903 1943-present		
6403	Nikiski Terminal	Lat 60°41', Long 151°28'; in NE1/4 sec. 21, T. 7 N., R. 12 W., near North Kenai Road and 10 mi north of Kenai.	1967-present		
GROUND-WATER LEVELS					
Station no.	Owner-well designation	Well location and description	Frequency of measurement	Period of Record	Remarks
10004	Collier's OB-58	In SW1/4 sec. 23, T. 7 N., R. 12 W., Drilled observation artesian well in sand and gravel of Pleistocene age, diam. 6 in., depth 110.5 ft, screened 106.5 to 110.5 ft.	Recorder	1968 to present	Upper confined aquifer.
10116	USGS, Holt Road	In NE1/4 sec. 32, T. 7 N., R. 11 W., Drilled water-table test well in sand and gravel of Pleistocene age, diam. 2 in., depth 77 ft, screened 74 to 77 ft.	Intermittent taped	1968-1972 1977-1979	Water-table aquifer.
10456	USGS-Kenai	In SE1/4 sec. 12, T. 6 N., R. 11 W., Drilled water-table test well in sand and gravel of Pleistocene age, diam. 2 in., depth 82 ft, screened 82 to 85 ft.	Intermittent taped	1967-1972	Water-table aquifer.
10592	Collier's OB-7A	In SW1/4 sec. 23, T. 7 N., R. 12 W., Drilled observation artesian well in sand and gravel of Pleistocene age, diam. 10 in., depth 408 ft, perforated 330 to 350 ft.	Intermittent taped	1968-1971 1977 to present	Record for 1968-1971 was from perforated zone at 150 to 155 ft. Well designed in 1975 and perforated at 330-352 of the lower confined aquifer.
10605	Collier's OB-7C	In SW1/4 sec. 26, T. 7 N., R. 12 W., Drilled artesian observation well in sand and gravel of Pleistocene age, diam. 6 in., depth 155 ft, screened 150 to 155 ft.	Recorder Intermittent taped	1971-1973 1977-1979	Record poor; upper confined aquifer.
10607	Collier's PW-9	In NW1/4 sec. 26, T. 7 N., R. 12 W., Drilled unused water-table production well in sand and gravel of Pleistocene age, diam. 12 in., depth 90 ft, screened 55 to 90 ft.	Recorder Intermittent taped	1970-1979 1979 to present	Water-table aquifer.
10613	C.W. Hertz	In NW1/4 sec. 27, T. 7 N., R. 12 W., Drilled water-table production well in sand and gravel of Pleistocene age, diam. 6 in., depth 66 ft, screened 61 to 66 ft.	Monthly	1970-1979	Water-table aquifer.
10624	Collier's TW-4	In NE1/4 sec. 27, T. 7 N., R. 12 W., Drilled artesian test well in sand and gravel of Pleistocene age, diam. 10 in., depth 144 ft, screened 124 to 144 ft.	Recorder	1977-1979	Upper confined aquifer.
10646	Marathon 011	In NE1/4 sec. 3, T. 6 N., R. 10 W., Drilled unused water-table production well in sand and gravel of Pleistocene age, diam. 6 in., depth 65 ft, open-end at 65 ft.	Recorder	1976 to present	Water-table aquifer.
10676	Tesoro TW-1	In NW1/4 sec. 22, T. 7 N., R. 12 W., Drilled artesian test well in sand and gravel of Pleistocene age, diam. 6 in., depth 250 ft, perforated 90 to 95 ft and 107 to 111 ft.	Monthly	1968-1980	Upper confined aquifer.
10678	Tesoro TW-2	In NW1/4 sec. 22, T. 7 N., R. 12 W., Drilled artesian test well in sand and gravel of Pleistocene age, diam. 6 in., depth 150 ft, perforated 90 to 94 ft.	Recorder	1977-1979	Upper confined aquifer.
10784	Bernice Lake Highway Camp	In SW1/4 sec. 1, T. 7 N., R. 12 W., Drilled artesian production well in sand and gravel of Pleistocene age, diam. 6 in., depth 132 ft, screened 126.5 to 131.5 ft.	Intermittent taped Monthly	1970-1972 1977-1979	Upper confined aquifer.
10792	City of Kenai TW-3	In NW1/4 sec. 3, T. 6 N., R. 11 W., Drilled artesian test well in sand and gravel of Pleistocene age, diam. 6 in., depth 273 ft, perforated 17 to 30 ft.	Intermittent taped Recorder	1970-1971 1977 to present	Beaver Creek confined aquifer.
10795	City of Kenai TW-4	In SE1/4 sec. 35, T. 6 N., R. 11 W., Drilled artesian test well in sand and gravel of Pleistocene age, diam. 6 in., depth 240 ft, perforated 235 to 240 ft.	Recorder	1970-1978	Beaver Creek confined aquifer.
10883	Old Kenai Dam	In NW1/4 sec. 28, T. 6 N., R. 11 W., Drilled water-table observation well in sand and gravel of Pleistocene age, diam. 6 in., depth 11.3 ft, perforated 7 to 11.3 ft.	Recorder	1970-1979	Water-table aquifer. Recorder on adjacent well of similar depth, 1968-1970.
10941	Bernice Lake (Deep)	In SE1/4 sec. 15, T. 7 N., R. 12 W., Drilled artesian observation well in sand and gravel of Pleistocene age, diam. 6 in., depth 396 ft, screened 191 to 196 ft.	Recorder	1972 to present	Upper confined aquifer (?)
10942	North Kenai State Dam	In NW1/4 sec. 19, T. 7 N., R. 11 W., Drilled artesian observation well in sand and gravel of Pleistocene age, diam. 6 in., depth 343 ft, screened 339 to 343 ft.	Recorder Intermittent taped Monthly	1972-1974 1974-1977 1977-1979	Lower confined aquifer (?)
11001	Collier's EW-1	In SE1/4 sec. 21, T. 7 N., R. 12 W., Drilled artesian test well in sand and gravel of Pleistocene age, diam. 10 in., depth 382 ft, screened 342 to 382 ft.	Recorder	1977 to present	Lower confined aquifer.
11072	Collier's EW-38	In SE1/4 sec. 21, T. 7 N., R. 12 W., Drilled artesian test well in sand and gravel of Pleistocene age, diam. 6 in., depth 356 ft, open-end finish.	Recorder	1977-1979	Lower confined aquifer.
11075	Collier's TW-5	In NE1/4 sec. 21, T. 7 N., R. 12 W., Drilled artesian test well in sand and gravel of Pleistocene age, diam. 8 in., depth 305 ft, screened 283 to 305 ft.	Monthly	1977-1979	Lower confined aquifer.
11076	Same as 11075	Same as 11075, except perforated in upper confined aquifer from 100 to 100 ft. Packer set between perforated zone and screened zone.	Monthly	1977-1979	Upper confined aquifer.
11216	USGS - Bernice Lake (Shallow)	In SE1/4 sec. 15, T. 7 N., R. 12 W., Drilled water-table observation well in sand and gravel of Pleistocene age, diam. 6 in., depth 52.4 ft, sand point 195 to 196 ft.	Recorder Intermittent taped	1977-1980 1980 to present	Water-table aquifer.
11233	USGS-Tesoro	In NW1/4 sec. 22, T. 7 N., R. 12 W., Drilled artesian test well in sand and gravel of Pleistocene age, diam. 6 in., depth 332 ft, open-end at 332 ft.	Recorder	1977 to present	Lower confined aquifer.
11241	USGS-Bernice Lake West	In SE1/4 sec. 16, T. 7 N., R. 12 W., Drilled water-table observation well in sand and gravel of Pleistocene age, diam. 2 in., depth 86.5 ft, sand point 83.5 to 86.5 ft.	Intermittent taped	1978-1979	Water-table aquifer.
11242	USGS-Ainsworth	In SE1/4 sec. 11, T. 7 N., R. 12 W., Drilled water-table observation well in sand and gravel of Pleistocene age, diam. 2 in., depth 43 ft, sand point 40 to 43 ft.	Intermittent taped	1978-1979	Water-table aquifer.
11244	USGS-Estes	In SE1/4 sec. 12, T. 7 N., R. 12 W., Drilled water-table observation well in sand and gravel of Pleistocene age, diam. 2 in., depth 64 ft, sand point 61 to 64 ft.	Intermittent taped	1978-1979	Water-table aquifer.
11245	USGS-Enler	In NW1/4 sec. 26, T. 7 N., R. 12 W., Drilled water-table observation well in sand and gravel of Pleistocene age, diam. 2 in., depth 65 ft, perforated 61 to 65 ft.	Intermittent taped	1978-1979	Water-table aquifer.
11251	USGS-Bernice Lake West	In SE1/4 sec. 16, T. 7 N., R. 12 W., Drilled artesian observation well in sand and gravel of Pleistocene age, diam. 2 in., depth 198 ft, sand point 195 to 198 ft.	Intermittent taped	1978-1979	Upper confined aquifer.
11252	USGS-Ainsworth	In SE1/4 sec. 11, T. 7 N., R. 12 W., Drilled artesian observation well in sand and gravel of Pleistocene age, diam. 2 in., depth 198 ft, sand point 193 to 198 ft.	Intermittent taped	1978-1979	Upper confined aquifer.
11253	USGS-Mansfield	In NW1/4 sec. 14, T. 7 N., R. 12 W., Drilled artesian observation well in sand and gravel of Pleistocene age, diam. 2 in., depth 25 ft, sand point 118 to 121 ft.	Intermittent taped	1978-1979	Upper confined aquifer.
11254	USGS-Estes	In SE1/4 sec. 12, T. 7 N., R. 12 W., Drilled artesian observation well in sand and gravel of Pleistocene age, diam. 2 in., depth 153 ft, sand point 144 to 147 ft.	Intermittent taped	1978-1979	Upper confined aquifer.
11255	USGS-Enler	In NW1/4 sec. 26, T. 7 N., R. 12 W., Drilled artesian observation well in sand and gravel of Pleistocene age, diam. 2 in., depth 123 ft, sand point 119 to 122 ft.	Intermittent taped	1978-1979	Upper confined aquifer.
11623	USGS-TW-9-S	In NW1/4 sec. 3, T. 6 N., R. 11 W., Drilled artesian observation well in sand and gravel of Pleistocene age, diam. 6 in., depth 127 ft, screened 122 to 127 ft.	Intermittent taped	1980-1982	Upper confined aquifer.